

**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

## Total Maximum Daily Load Information Sheet

### Shoal Creek

**Water Body ID: 3222**

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#### Water Body Segment at a Glance:

**County:** Newton  
**Nearby City:** Joplin  
**Length:** 50.5 miles  
**Pollutant:** *E. coli* bacteria  
**Source:** Rural Nonpoint Source



State Map Showing Location of Watershed

#### Scheduled for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at [dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm](http://dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm).

#### Other TMDLs:

The U.S. Environmental Protection Agency approved a TMDL to address fecal coliform bacteria in upstream segments of Shoal Creek, water body IDs 3230 and 3231. This TMDL and associated documents are available online at [dnr.mo.gov/env/wpp/tmdl/3230-shoal-ck-record.htm](http://dnr.mo.gov/env/wpp/tmdl/3230-shoal-ck-record.htm).

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### Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Shoal Creek is impaired due to exceedances of water quality criteria that protect recreational uses.

#### Designated uses of Shoal Creek\*

- Warm Water Habitat (WWH)
- Cool Water Habitat (CLH)
- Whole Body Contact Recreation Category A (WBC-A)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Industrial Water Supply (IND)
- Drinking Water Supply (DWS)
- Livestock and Wildlife Protection (LWP)

\*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

### Use that is impaired

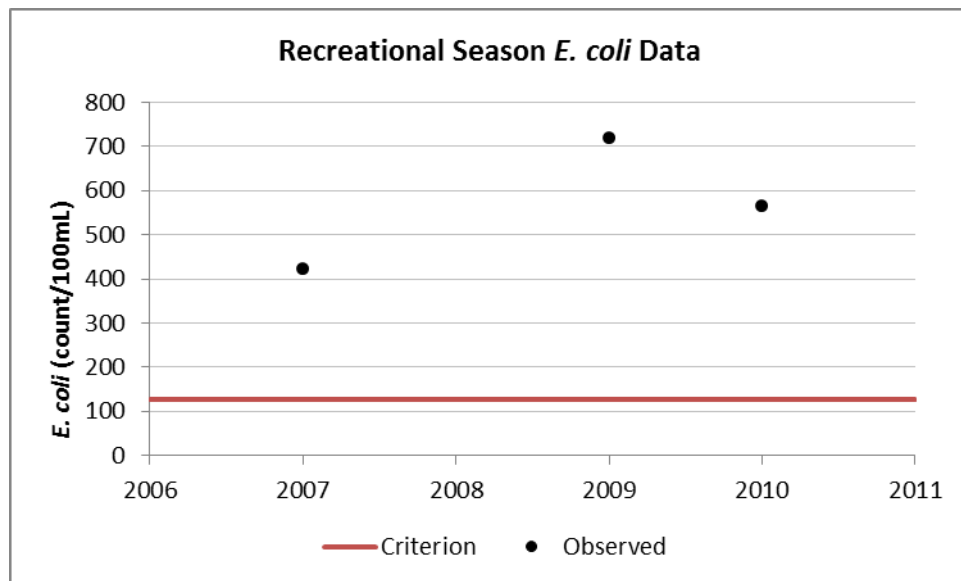
- Whole Body Contact Recreation Category A (WBC-A)

### Criteria that apply

Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that for category A waters, the *E.coli* bacteria count shall not exceed 126 per 100 milliliters. This count is the geometric mean during the recreational season (April 1- October 31).

### Assessment and water quality data

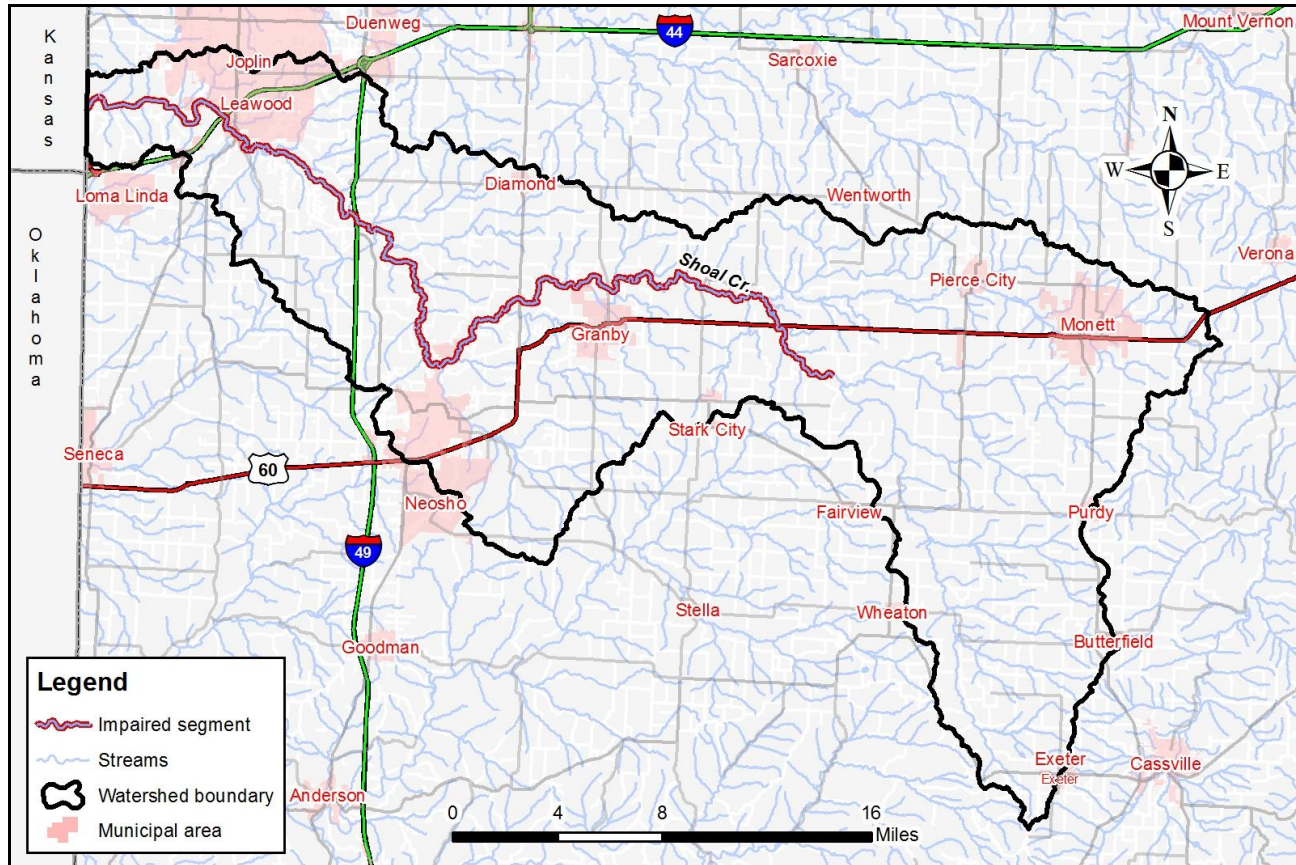
High counts of *E. coli* bacteria in surface water are an indication of fecal contamination. *E. coli*, are bacteria found in the intestines of warm blooded animals and are used as indicators of the risk of waterborne disease from pathogenic bacteria or viruses. The department judges a stream to be impaired by *E. coli* when the criterion is exceeded in any of the last three years for which there is a minimum of five samples collected. Sufficient data for Shoal Creek is available for 2007, 2009 and 2010. The criterion was exceeded in all three of these years.



### TMDL for Shoal Creek

The Shoal Creek TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Shoal Creek TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

## Map of the Shoal Creek watershed



### For more information call or write:

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